

AMENDMENTS TO THE CLAIMS

1-42. (Cancelled)

43. (Currently Amended) An operating structure of a polymer-gel display, utilizing the flexing of a polymer-gel sheet to enable the display, comprising:

a pair of substrates with a preset gap therebetween;

a pair of conducting layers disposed on opposing surfaces of the substrates;

a polymer-gel sheet of a first color disposed between the substrates, contacting no more than one of the substrates, having two fixed ends and a flexible center area; and

a fluid layer of a second color between the substrates, displaying the second color via the substrate not contacting the polymer-gel sheet,

wherein the center area of the polymer-gel sheet flexes toward the substrate originally not contacted thereby when an external electric field is applied, such that the first color of the polymer-gel sheet is displayed via the substrate after the polymer-gel sheet and the substrate make contact.

44. (Original) The operating structure as claimed in claim 43, wherein the substrate originally not contacting the polymer-gel sheet is a transparent glass substrate.

45. (Original) The operating structure as claimed in claim 43, wherein the polymer-gel sheet is a PMMA (polymethyl methacrylate)-gel, polyamide-gel, or polyvinyl fluoride-gel sheet.

46. (Original) The operating structure as claimed in claim 43, wherein the polymer-gel sheet further comprises an ion-exchange film formed thereon.

47. (Original) The operating structure as claimed in claim 43, wherein the fluid layer further comprises an electrolyte.

48. (New) The operating structure as claimed in claim 43, wherein one of the pair of conducting layers is in contact with one of the pair of substrates, and the other one of the pair of conducting layers is in contact with the other one of the pair of substrates.